This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.





United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,972	12/27/2001		Ching-Chiang Liu	LIUC3018/EM	1791	
23364	7590	07/13/2004		EXAM	EXAMINER	
BACON & THOMAS, PLLC NGUYEN, MIKE					, MIKE	
625 SLATER	S LANE					
FOURTH FL	OOR		ART UNIT	PAPER NUMBER		
ALEXANDR	IA, VA	22314		2182		

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



• • • • •	Application No.	Applicant(s)	_			
Office Action Commons	10/026,972	LIU ET AL.	d			
Office Action Summary	Examiner	Art Unit	V			
	Mike Nguyen	2182				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	•			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be t y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fro , cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communicat IED (35 U.S.C. § 133).	ion.			
Status						
1) Responsive to communication(s) filed on 27 D	ecember 2001.					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowa	nce except for formal matters, p	rosecution as to the merits	is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.	•				
5) Claim(s) is/are allowed.			,			
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			المسر			
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc		Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.	•			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	s have been received					
2. Certified copies of the priority document		ition No				
3. Copies of the certified copies of the prior	• • •					
application from the International Burea	•	· ·				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	4) 🔲 Interview Summa	n/ (PTO 413)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				
Paper No(s)/Mail Date	o) 🗀 Oalei					

Application/Control Number: 10/026,972 Page 2

Art Unit: 2182

DETAILED ACTION

Notices & Remarks

1. Claims 1-7 are pending for the examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Bodenmann et al. (U.S. Pat. No. 5,881,366).

As to claim 1, Bodenmann teaches a wireless receiving method implementing in a wireless receiving apparatus having a single MCU (microprocessor control unit) (see fig. 1), after the single MCU sequentially received signals having different frequencies transmitted from a plurality of peripheral devices in a mode of multi-segment multi-task data processing and finished a process for identifying the received signals (see col. 3 lines 60-67 and col. 5 lines 53-58), the single MCU proceeds the process comprising the steps of:

- (a) reading a predetermined processing procedure with respect to a first signal from a memory (see claim 1 lines 13-44);
- (b) performing a predetermined process with respect to the first signal based on the predetermined processing procedure (see claim 1 lines 13-44);

Application/Control Number: 10/026,972

Art Unit: 2182

- (c) storing index of the last finished step in the memory, after at least one step of the predetermined processing procedure has been performed with respect to the first signal (see claim 1 lines 13-44);
- (d) reading the predetermined processing procedure with respect to a second signal from the memory (see claim 1 lines 45-57);
- (e) performing the predetermined process with respect to the second signal based on the predetermined processing procedure (see claim 1 lines 45-57);
- (f) storing index of the last finished step in the memory, after at least one step of the predetermined processing procedure has been performed with respect to the second signal (see claim 1 lines 45-57);
- (g) determining whether all of the predetermined processes have been performed about the signals based on the predetermined processing procedure with respect to the signals (see col. 6 line 16 to col. 7 line 18); and
- (h) sending all of the processed signals to a computer for processing based on data contained in the signals, if a result of the determination in step (g) is positive, otherwise looping back to step (a) (see col. 6 line 16 to col. 7 line 18).

As to claim 2, Bodenmann teaches the method of claim 1, further comprising the steps of:

- (i) reading a signal conversion table stored in the memory, after the signal has been received (see fig. 3);
- (j) determining whether a type of the receive signal has a corresponding type of a signal recorded in the conversion table (see col. 6 line 44 to col. 7 line 18);

Application/Control Number: 10/026,972

Art Unit: 2182

(k) determining whether a length of the received signal is correct based on data of a corresponding signal recorded in the conversion table, if a result of the determination in step (j) is positive (see col. 8 lines 4-28); and

(i) decoding the signal based on a corresponding decoding procedure recorded in the conversion table, if a result of the determination in step (k) is positive, and sequentially reading components of the decode signal, and sending all of the processed signals to the computer so that a CPU (central processing unit) of the computer is capable of processing based on data contained in the signal (see claim 6).

As to claims 3 and 4, the method of claim 2, further comprising the step of if the result of the determination in step (k) is negative discarding the signal so as to continue to receive signal (see col. 10 line 58 to col. 11 line 30).

As to claim 5, Bodenmann teaches the method of claim 2, wherein the processing based on data contained in the signal comprises a first processing with respect to a wireless peripheral device corresponding to the signal (see col. 6 lines 44-57).

As to claim 6, Bodenmann teaches the method of claim 2, wherein the processing based on data contained in the signal comprises a second processing with respect to an instruction or data corresponding to the signal (see col. 6 lines 44-57).

Application/Control Number: 10/026,972 Page 5

Art Unit: 2182

Claim 7 is directed to a wireless receiving apparatus implementing the wireless receiving method as set forth in claim 1. Since Bodenmann teaches the wireless receiving method as set forth in claim 1; therefore, he also teaches the wireless receiving apparatus as set forth in claim 7.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,725,016 B1 (Jeong et al.)

U.S. Pat. No. 6,597,292 B1 (Shiguo)

U.S. Pat. No. 6,195,712 B1 (Pawlowski et al.)

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 703 305-5040. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703 308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/026,972

Art Unit: 2182

Mike Nguyen Patent Examiner Group Art Unit 2182

07/07/2004

JUEFFREY GAFFIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100